查询HWS305供应商

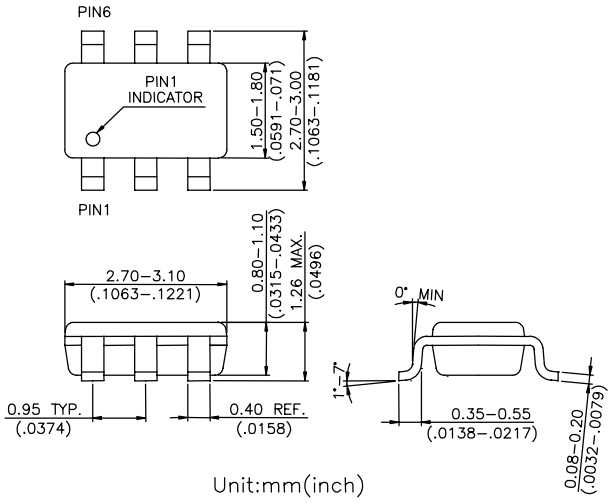
Features

- **Low Insertion Loss:** 0.35dB @ 2GHz
- **Isolation:** 26dB @ 2GHz
- **P1dB:** +25dBm Typical @ +3V
- **IP3:** 43dBm
- **Low DC Power Consumption**
- **Low Cost SOT-26 Plastic Package**

Description

The HWS305 is a GaAs MMIC SPDT switch in a low cost SOT-26 plastic package. The HWS305 features low insertion loss with very low DC power consumption. This general purpose switch can be used in analog and digital wireless communication systems.

SOT-26



Electrical Specifications at 25°C with 0, +3V Control Voltages

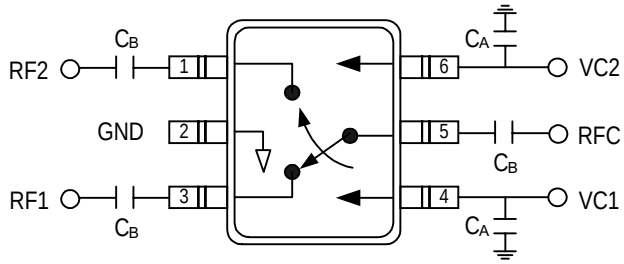
Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Insertion Loss	DC-1.0GHz DC-2.5GHz		0.30 0.40	0.50 0.60	dB dB
Isolation	DC-1.0GHz DC-2.0GHz DC-2.5GHz	25 23 20	28 26 22		dB dB dB
VSWR	DC-2.5GHz		1.20:1		
Input Power for One dB Compression	0.5-2.5GHz 0/+3V 0/+5V		 25 30		dBm
3rd Order Intermodulation Intercept Point (IP3)	0.5-2.5GHz (for two-tone input power up to +5dBm) 0/+3V 0/+5V		 43 48		dBm
Switching Time			50		ns
Control Current			5	50	μA

Note: All measurements made in a 50Ω system with 0/+3V control voltages, unless otherwise specified.

Absolute Maximum Ratings

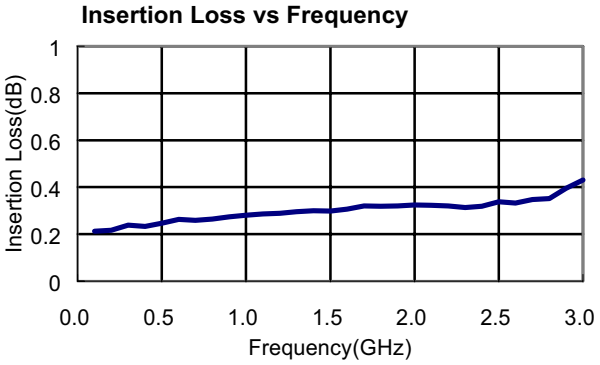
Parameter	Absolute Maximum
RF Input Power 0.05GHz 0.5-2.5GHz	 +24dBm +30dBm
Control Voltage	+8V
Operating Temperatur	-40°C to +85°C
Storage Temperature	-65°C to +150°C

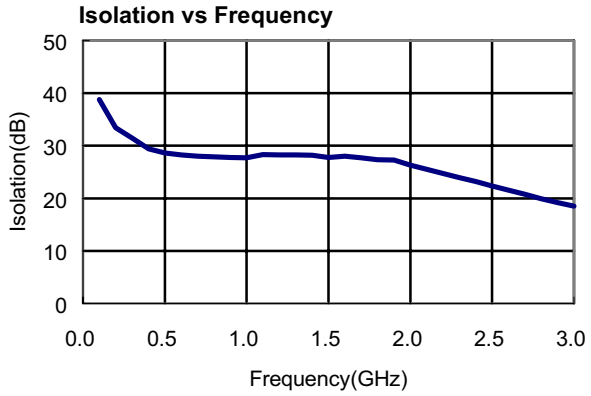
Pin Out

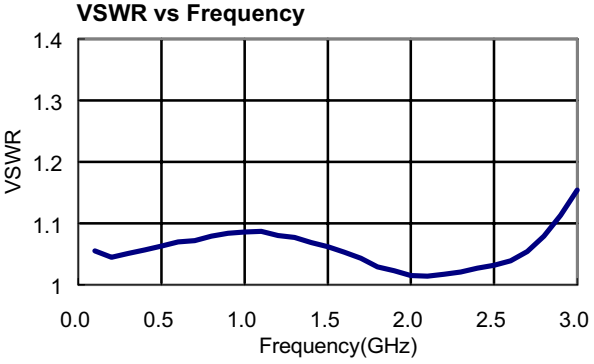


DC blocking capacitors C_B are required on all RF ports.
C_B= C_A= 51pF for operating frequency > 500MHz.

Typical Performance at +25°C







Truth Table

VC1	VC2	RFC-RF1	RFC-RF2
V_{High}	0	Insertion Loss	Isolation
0	V_{High}	Isolation	Insertion Loss

V_{High} = +3V to +5V